

**WEST**☐  

L11: Entry 16 of 32

File: USPT

Jan 15, 2002

US-PAT-NO: 6338958

DOCUMENT-IDENTIFIER: US 6338958 B1

TITLE: Integrin-linked kinase and its uses

DATE-ISSUED: January 15, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Dedhar; Shoukat	Vancouver			CA
Hannigan; Greg	Ontario			CA

US-CL-CURRENT: 435/194; 435/15, 435/4, 530/350

## CLAIMS:

What is claimed is:

1. A method of in vitro screening for biologically active agents that modulate the phosphorylation activity of integrin linked kinase (ILK), the method comprising:

combining in a reaction mixture a candidate biologically active agent; a human ILK polypeptide; a substrate for ILK kinase; and ATP;

measuring the phosphorylation of said substrate in the presence of said candidate biologically active agent, compared to a control sample in the absence of said agent;

wherein a decrease in phosphorylation is indicative that said agent is an inhibitor of ILK and an increase in phosphorylation is indicative that said agent is an enhancer of ILK.

2. A method of claim 1, wherein said reaction mixture further comprises (Ptdlns (3,4,5)P.sub.3) and wherein said agent inhibits the binding of (Ptdlns (3,4,5)P.sub.3) to ILK.

3. The method of claim 1, wherein said ILK substrate is protein kinase B at amino acid residue ser473.

4. The method of claim 1, wherein said substrate is ILK.